

**ABSTRACT****APPARATUS FOR THE CHARACTERISATION OF PIGMENTED SKIN LESIONS**

An apparatus is described, for the characterisation of pigmented skin  
5 lesions, which comprises an instrument for the acquisition of a plurality of  
images of the lesion, filmed with lighting at different wavelengths, means  
designed to segment and parameterise each of said images, means designed to  
extrapolate a data set from said images and input said data into a neural  
network system, means designed to compare the results processed by said  
10 neural network with the results obtained following similar processing of  
known cases, and means designed to vary the weighting of each parameter  
supplied to the neural network on the basis of said results.